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## (54) FILE ASSIGNING SYSTEM FOR STORAGE DEVICE

being generated.

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## (57) Abstract:

PURPOSE: To prevent the generation of the small pieces of unused areas, and simultaneously, to attain optimum file assignment through small overhead by assigning the unused area by selecting the unused area larger than and closest to size shown by an area evaluation function from among the unused areas on a storage device.

CONSTITUTION: A file assigning device 10 to assign a file to a disk device A in response to a file assigning request 20 is constituted of a volume unused information deciding means 30, the generation processing 40 of a file released area order table, file released area retrieval processing 50 based on a file released area evaluation function, and file assignment processing 60. Then, the area evaluation function corresponding to an existing file generation state is obtained for the file assigning request 20, and the unused area larger than and closest to the size shown by this area evaluation function is selected from among the unused areas on the storage device, and is assigned, and therefore, the useless small pieces of the areas can be prevented from

